

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 6    | ((("20040184641") or ("20030103686") or ("20020067845")).PN.                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/10/25<br>14:08 |
| L2    | 6    | L1 and @ad<"20050613"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/10/25<br>14:09 |
| L3    | 1    | L2 and interface   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/10/25<br>14:11 |
| L4    | 0    | L3 and interface same opening same direction same(cod or camera or image\$1) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/10/25<br>14:13 |
| L5    | 1    | L3 and interface and opening and direction and(cod or camera or image\$1)    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/10/25<br>14:14 |
| L7    | 0    | L3 and interface adj opening   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/10/25<br>14:23 |
| L8    | 0    | L3 and interface adj opening same(cod or camera or image\$1)                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/10/25<br>14:25 |

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| L9 | 0   | L3 and interface adj opening and(cod or camera or image\$1)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/25<br>14:25 |
| S1 | 368 | (cod or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood<br>adj vessel)and living adj body and(LED or light adj emitted adj diode or infrared adj<br>diode)                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:03 |
| S2 | 0   | S1 and interface4   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:03 |
| S3 | 190 | S1 and interface  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:04 |
| S4 | 190 | S1 and interface and(cod or camera or image\$1)and(finger adj vein or finger-vien or<br>fingervein or blood adj vessel)and living adj body and(LED or light adj emitted adj<br>diode or infrared adj diode) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:05 |
| S5 | 1   | S4 and interface adj opening  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:07 |
| S6 | 1   | S3 and interface adj opening  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:08 |
| S7 | 154 | S4 and(@ad<"20050613" or @rlad<"20050613" or @prad<"20050613" or @ptad<<br>"20050613")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:13 |

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| S8  | 108 | S4 and @ad<"20050613"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:14 |
| S9  | 35  | ((NAOTO) near2 (MIURA)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/21<br>14:24 |
| S10 | 81  | ((AKIO) near2 (NAGASAKA)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/21<br>14:24 |
| S11 | 112 | ((TAKAFUMI) near2 (MIYATAKE)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/21<br>14:25 |
| S12 | 190 | (ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body and(LED or light adj emitted adj diode or infrared adj diode)and interface        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:25 |
| S13 | 12  | S9 and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body and(LED or light adj emitted adj diode or infrared adj diode)and interface  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:26 |
| S14 | 1   | S13 and interface adj opening   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:26 |
| S15 | 0   | S14 and(@ad<"20050613" or @rlad<"20050613" or @prad<"20050613" or @ptad<"20050613")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:27 |
| S16 | 12  | S10 and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body and(LED or light adj emitted adj diode or infrared adj diode)and interface | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:27 |
| S17 | 1   | S16 and interface adj opening   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:27 |

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| S18 | 20   | S11 and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body and(LED or light adj emitted adj diode or infrared adj diode)and interface         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:27 |
| S19 | 1    | S18 and interface adj opening   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:28 |
| S20 | 3174 | interface and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)and(LED or light adj emitted adj diode or infrared adj diode)and interface    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:30 |
| S21 | 3174 | interface and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)and(LED or light adj emitted adj diode or infrared adj diode)                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:30 |
| S22 | 5    | interface same(ccd or camera or image\$1)same(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)same(LED or light adj emitted adj diode or infrared adj diode)              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:31 |
| S23 | 3    | S22 and @ad<"20050613"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:31 |
| S24 | 45   | interface same(ccd or camera or image\$1)same(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:33 |
| S25 | 0    | interface same(ccd or camera or image\$1)same(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1 same(LED or light adj emitted adj diode or infrared adj diode) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:34 |

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| S26 | 14 | S24 and(LED or light adj emitted adj diode or infrared adj diode)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:35 |
| S27 | 13 | S26 and (comput\$3 or processing)and blood adj vessel same image\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:36 |
| S28 | 1  | S27 and light adj shielding  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:37 |
| S29 | 3  | S27 and @ad<"20050613"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:37 |
| S30 | 0  | S29 and interface adj opening same(ccd or camera or image\$1)same(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:42 |
| S31 | 0  | S29 and interface adj opening and(ccd or camera or image\$1)same(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:42 |
| S32 | 34 | "6546122"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:43 |
| S33 | 6  | ((("6546122") or ("20040208345") or ("6633656") or ("7280676").pn.)).PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/04/21<br>14:45 |

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|-----|----|--|---|----|-----|---------------------|
| S34 | 0  | S33 and interface and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:46 |
| S35 | 0  | S33 and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:46 |
| S36 | 6  | S33 and @ad<"20050613"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:46 |
| S37 | 99 | ((("20060047970") or ("20060182318") or ("20070058841") or ("20080075331") or ("20080112600") or ("20080123905") or ("20080175444") or ("20080211628") or ("20080253620") or ("20080316323") or ("20080317293") or ("20090074316") or ("20090080710") or ("20090092291") or ("20090092296") or ("7184576") or ("20040057605") or ("20070230753") or ("20080063244") or ("20080075332") or ("7273170") or ("7471810") or ("7508957") or ("7508958") or ("20050286744") or ("20060023919") or ("20060038006") or ("20060056664") or ("20060078170") or ("20060080254") or ("20060080547") or ("20060130138") or ("20060143117") or ("20060151599") or ("20060193499") or ("20060193500") or ("20060285726") or ("20070003112") or ("20070022303") or ("20070041620") or ("20070057764") or ("20070074042") or ("20070098223") or ("20070189583") or ("20070206391") or ("20070217660") or ("20080159599") or ("20080205711") or ("20080226136") or ("20080298642") or ("").pn.)).PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/04/21<br>14:51 |
| S38 | 31 | S37 and @ad<"20050613"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:51 |
| S39 | 41 | S37 and(@ad<"20050613" or @rlad<"20050613" or @prad<"20050613" or @ptad<"20050613")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:52 |
| S41 | 12 | S39 and interface and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body or biometrics)adj image\$1 and authenticat\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/21<br>14:55 |

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| S42 | 12 | S41 and (light adj shielding adj unit or LED or light adj emitted adj diode or infrared adj diode)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:56 |
| S43 | 12 | S42 and (comput\$3 or processing) and blood adj vessel same image\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:57 |
| S44 | 0  | S43 and interface adj opening and (ccd or camera or image\$1) same (finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body) adj image\$1 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:57 |
| S45 | 0  | S43 and interface adj opening   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:58 |
| S46 | 11 | S43 and opening   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>14:58 |
| S47 | 11 | S46 and interface and opening and (ccd or camera or image\$1) and (finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body) adj image\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:00 |
| S48 | 7  | S47 and @ad<"20050613"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:00 |
| S49 | 0  | S48 and interface adj opening   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:08 |

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| S50 | 7 | S48 and (plural or plurality)same(light adj shielding adj unit or LED or light adj emitted adj diode or infrared adj diode)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:09 |
| S51 | 0 | S50 and direction and perpendicular and longitudinal and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1 and interface   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:12 |
| S52 | 0 | S50 and interface and shape adj concaved and center   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:14 |
| S53 | 1 | S50 and interface and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body finger or biometrics)and(motion or movement or moved)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:18 |
| S54 | 1 | S53 and @ad<"20050613"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:18 |
| S55 | 1 | S54 and(comput\$3 or processing)and(ccd or camera or image\$1) adj image\$1 and (finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body finger or biometrics)and(motion or movement or moved)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:24 |
| S56 | 1 | S54 and(comput\$3 or processing)and(ccd or camera or image\$1)adj image\$1 and (finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body finger or biometrics)and(compar\$5 or match\$3 or composites)and(motion or movement or moved) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:25 |
| S57 | 1 | S56 and interface   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:27 |

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|-----|------|--|---|----|----|---------------------|
| S58 | 1    | S57 and @ad<"20050613"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/21<br>15:27 |
| S60 | 5790 | 382/124,115,125,127,116,312,190,218,278,126,100,117,191.CCLS.  | USPAT   | OR | ON | 2009/04/21<br>15:41 |
| S61 | 20   | S60 and interface and(cod or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body or biometrics)adj image\$1 and authenticat\$3                                      | USPAT   | OR | ON | 2009/04/21<br>15:42 |
| S62 | 10   | S61 and(light adj shielding adj unit or LED or light adj emitted adj diode or infrared adj diode)  | USPAT   | OR | ON | 2009/04/21<br>15:43 |
| S63 | 8    | S62 and(comput\$3 or processing)and blood adj vessel same image\$1   | USPAT   | OR | ON | 2009/04/21<br>15:44 |
| S64 | 6    | S63 and interface and opening and(cod or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1   | USPAT   | OR | ON | 2009/04/21<br>15:44 |
| S65 | 5    | S64 and(plural or plurality)same(light adj shielding adj unit or LED or light adj emitted adj diode or infrared adj diode)   | USPAT   | OR | ON | 2009/04/21<br>15:45 |
| S66 | 3    | S65 and interface and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body finger or biometrics)and(motion or movement or moved)  | USPAT   | OR | ON | 2009/04/21<br>15:46 |
| S67 | 3    | S66 and(comput\$3 or processing)and(cod or camera or image\$1) adj image\$1 and (finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body finger or biometrics)and(motion or movement or moved) | USPAT   | OR | ON | 2009/04/21<br>15:47 |
| S68 | 2    | S67 and @ad<"20050613"   | USPAT   | OR | ON | 2009/04/21<br>15:47 |
| S70 | 2    | S68 and interface  | USPAT   | OR | ON | 2009/04/21<br>15:48 |
| S71 | 610  | 340/5.53,5.83,5.82,5.52,356.ccls.  | USPAT   | OR | ON | 2009/04/21<br>16:00 |
| S72 | 10   | S71 and interface and(cod or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body or biometrics)adj image\$1 and authenticat\$3                                      | USPAT   | OR | ON | 2009/04/21<br>16:01 |
| S73 | 4    | S72 and(light adj shielding adj unit or LED or light adj emitted adj diode or infrared adj diode)  | USPAT   | OR | ON | 2009/04/21<br>16:01 |
| S74 | 4    | S73 and(comput\$3 or processing)and blood adj vessel same image\$1   | USPAT   | OR | ON | 2009/04/21<br>16:02 |
| S75 | 4    | S74 and interface and opening and(cod or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1   | USPAT   | OR | ON | 2009/04/21<br>16:02 |

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| S76 | 2    | S75 and(comput\$3 or processing)and(ccd or camera or image\$1) adj image\$1 and (finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body finger or biometrics)and(motion or movement or moved) | USPAT | OR | ON | 2009/04/21<br>16:02 |
| S77 | 1    | S76 and @ad<"20050613"   | USPAT | OR | ON | 2009/04/21<br>16:02 |
| S78 | 2    | S70 and @ad<"20050613"   | USPAT | OR | ON | 2009/04/21<br>16:04 |
| S79 | 539  | 713/186.ccls.  | USPAT | OR | ON | 2009/04/21<br>16:06 |
| S80 | 12   | S79 and interface and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body or biometrics)adj image\$1 and authenticat\$3                                      | USPAT | OR | ON | 2009/04/21<br>16:06 |
| S81 | 4    | S80 and(light adj shielding adj unit or LED or light adj emitted adj diode or infrared adj diode)  | USPAT | OR | ON | 2009/04/21<br>16:06 |
| S82 | 0    | S81 and(comput\$3 or processing)and blood adj vessel same image\$1   | USPAT | OR | ON | 2009/04/21<br>16:06 |
| S83 | 0    | S81 and interface and opening and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1   | USPAT | OR | ON | 2009/04/21<br>16:07 |
| S84 | 4    | S81 and @ad<"20050613"   | USPAT | OR | ON | 2009/04/21<br>16:07 |
| S85 | 4275 | 235/380,382.ccls.  | USPAT | OR | ON | 2009/04/21<br>16:11 |
| S86 | 5    | S85 and interface and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body or biometrics)adj image\$1 and authenticat\$3                                      | USPAT | OR | ON | 2009/04/21<br>16:11 |
| S87 | 1    | S86 and(light adj shielding adj unit or LED or light adj emitted adj diode or infrared adj diode)  | USPAT | OR | ON | 2009/04/21<br>16:12 |
| S88 | 1    | S87 and(comput\$3 or processing)and blood adj vessel same image\$1   | USPAT | OR | ON | 2009/04/21<br>16:12 |
| S89 | 1    | S88 and interface and opening and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body)adj image\$1   | USPAT | OR | ON | 2009/04/21<br>16:12 |
| S90 | 507  | 705/44.ccls.   | USPAT | OR | ON | 2009/04/21<br>16:15 |
| S91 | 0    | S90 and interface and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel or living adj body or biometrics)adj image\$1 and authenticat\$3                                      | USPAT | OR | ON | 2009/04/21<br>16:15 |

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|-----|-----|--|---|----|----|---------------------|
| S92 | 414 | (ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body and(LED or light adj emitted adj diode or infrared adj diode)                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>12:48 |
| S93 | 7   | S92 and(ccd or camera or image\$1)same(finger adj vein or finger-vien or fingervein or blood adj vessel)same living adj body same(LED or light adj emitted adj diode or infrared adj diode)                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>12:59 |
| S94 | 1   | S93 and(@ad<"20050613" or @rlad<"20050613" or @prad<"20050613" or @ptad<"20050613")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:00 |
| S95 | 0   | S93 and @ad<"20050613"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:00 |
| S96 | 414 | S92 and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body and(LED or light adj emitted adj diode or infrared adj diode)                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:08 |
| S97 | 42  | S96 and(LED or light adj emitted adj diode or infrared adj diode)and traveling and preventing and(ccd or camera or image\$1)and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:11 |
| S98 | 36  | S97 and interface and(finger adj vein or finger-vien or fingervein or blood adj vessel)and living adj body and(ccd or camera or image\$1)and(LED or light adj emitted adj diode or infrared adj diode)               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:14 |
| S99 | 26  | S98 and(@ad<"20050613" or @rlad<"20050613" or @prad<"20050613" or @ptad<"20050613")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:14 |

|      |     |   |   |    |    |                     |
|------|-----|---|---|----|----|---------------------|
| S100 | 19  | S98 and @ad<"20050613"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:14 |
| S101 | 0   | S96 and(LED or light adj emitted adj diode or infrared adj diode)same traveling same preventing same(cod or camera or image\$1)same(finger adj vein or finger-vien or fingervein or blood adj vessel)same living adj body | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:17 |
| S102 | 0   | S96 and interface same(finger adj vein or finger-vien or fingervein or blood adj vessel)same living adj body same(cod or camera or image\$1)same(LED or light adj emitted adj diode or infrared adj diode)                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>13:19 |
| S103 | 1   | S96 and interface same opening same direction same(cod or camera or image\$1)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:27 |
| S104 | 109 | S96 and interface and opening and direction and(cod or camera or image\$1)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:30 |
| S105 | 46  | S104 and @ad<"20050613"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:30 |
| S106 | 184 | S96 and (plurality or plural\$1)and(LED or light adj emitted adj diode or infrared)and (living adj body or finger adj vein or finger-vien or finger adj vein or blood adj vessel) same(cod or camera or image\$1)         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:36 |
| S107 | 15  | S96 and (plurality or plural\$1)same(LED or light adj emitted adj diode or infrared) same(living adj body or finger adj vein or finger-vien or finger adj vein or blood adj vessel)same(cod or camera or image\$1)        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:37 |

|      |   |  |   |    |    |                     |
|------|---|--|---|----|----|---------------------|
| S108 | 0 | S107 and interface same opening same direction same(ccd or camera or image\$1) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:37 |
| S109 | 4 | S107 and @ad<"20050613"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:38 |
| S110 | 2 | S109 and interface   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/24<br>14:55 |

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